INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/15046

PC(7): GOIJ 4/00 US CL: 356/369 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 356/369 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) USSTO EAST Category* Citation of Countement, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 5,788,632 A (Pezzaniti et al) 04 August 1998 (04.07.1998), see entire document. Y Further documents are listed in the continuation of Box C. Special categories of clued document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 5,788,632 A (Pezzaniti et al) 04 August 1998 (04.07.1998), see entire document. ** ** ** ** ** ** ** ** **	A. CLASSIFICATION OF SUBJECT MATTER		 	
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 356/369 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched classification symbols (U.S.: 356/369) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched states and the search terms used) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched states and the search terms used) Documentation searched other than minimum documentation of data base and, where practicable, search terms used) Selection of documents are listed in the continuation of Box C. Special categories of clied documents. Y. Special categories of clied documents: "Y. Special cate				
Marking documentation searched (classification system followed by classification symbols) U.S.: 356/369 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) USFORAST C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages X	US CL : 356/369			
Marking documentation searched (classification system followed by classification symbols) U.S.: 356/369 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) USFORAST C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages X	According to International Patent Classification (IPC) or to both national classification and IPC			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) ISPTO EAST C. DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X	B. FIELDS SEARCHED			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) ISPTO EAST C. DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X	Minimum documentation searched (classification system followed by classification much al-)			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) ISPTO EAST Category * Special Categories of cited documents to lamm No. 1-8,12-17 9-11,18 Categories of cited documents Tate and comment to a post of the activation of the activation or patent published on or after the international filing date or priority categories of cited documents and the principle in the activation or patent published on or after the international filing date or priority categories of cited documents and the categories of cited documents and the continuation or patent published on or after the international filing date or priority categories of cited documents and the categories of cited documents and the categories of cited documents a	U.S.: 356/369	by classification symbols)		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) ISPTO EAST Category * Special Categories of cited documents to lamm No. 1-8,12-17 9-11,18 Categories of cited documents Tate and comment to a post of the activation of the activation or patent published on or after the international filing date or priority categories of cited documents and the principle in the activation or patent published on or after the international filing date or priority categories of cited documents and the categories of cited documents and the continuation or patent published on or after the international filing date or priority categories of cited documents and the categories of cited documents and the categories of cited documents a				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) ISPTO EAST Category * Special Categories of cited documents to lamm No. 1-8,12-17 9-11,18 Categories of cited documents Tate and comment to a post of the activation of the activation or patent published on or after the international filing date or priority categories of cited documents and the principle in the activation or patent published on or after the international filing date or priority categories of cited documents and the categories of cited documents and the continuation or patent published on or after the international filing date or priority categories of cited documents and the categories of cited documents and the categories of cited documents a	Dogumentsi, and I is a second			
Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X X Y Y See patent family annex. Special categories of clied documents: The document defining the general state of the art which is not considered to be of particular relevance of particular relevan	became matter searched other than infimum documentation to the	ne extent that such documents are included i	n the fields searched	
Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X X Y Y See patent family annex. Special categories of clied documents: The document defining the general state of the art which is not considered to be of particular relevance of particular relevan				
Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X X Y Y See patent family annex. Special categories of clied documents: The document defining the general state of the art which is not considered to be of particular relevance of particular relevan				
Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X X Y Y See patent family annex. Special categories of clied documents: The document defining the general state of the art which is not considered to be of particular relevance of particular relevan	Electronic data base consulted during the international search (name of data base and, where provided to			
Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 5,788,632 A (Pezzaniti et al) 04 August 1998 (04.07.1998), see entire document. 1-8,12-17 9-11,18 Further documents are listed in the continuation of Box C. Special easegories of clied documents: **Cocument defining the general state of the art which is not considered to be of particular relevance **Cocument which may throw doubts on priority claim(a) or which is clied to establish the publication due of enother relation or other special reason (as establish the publication due of enother cliation or other special reason (as good cocument referring to an oral disclosure, use, exhibition or other means document in referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed or more other special reason (as good cocument referring to an oral disclosure, use, exhibition or other means document published prior to the international stiling date but later than the priority date claimed for invention cannot be considered to invoive an inventive step when the document is combined with one or more other special means of the actual completion of the international stiling date but later than the priority date claimed **A " document referring to an oral disclosure, use, exhibition or other means document published prior to the international stiling date but later than the priority date claimed **A " document member of particular relevance; the claimed invention cannot be considered to invoive an inventive step when the document is combined with one or more other send documents, such combination being obvious to a person skilled in the art document member of the same patent family. **A " document of the same patent family and the or priority date claimed to invoive an inventive step when the document is combined with one or more other send documents. **A " document of particular relevance; the	USPTO EAST			
Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 5,788,632 A (Pezzaniti et al) 04 August 1998 (04.07.1998), see entire document. 1-8,12-17 9-11,18 Further documents are listed in the continuation of Box C. Special categories of cited documents: ** ** ** ** ** ** ** ** **				
Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 5,788,632 A (Pezzaniti et al) 04 August 1998 (04.07.1998), see entire document. I-8,12-17 9-11,18 Further documents are listed in the continuation of Box C. Special categories of cited documents: """ """ """ """ """ """ """	DOCUMENTS CONSIDERED TO BE BELLEVAND			
Further documents are listed in the continuation of Box C. See patent family annex. "" "Interdocument publicade after the international filing date or priority date after any one of particular relevance; the claimed over an inventive see when the document is relevance and incompleted to involve an inventive see when the document publicated are relevance and seather that the publication date of another claimed or which is icited to establish the publication date of another claimed or which is icited to establish the publication date of another claimed or which is icited to establish the publication date of another claimed or which is icited to establish the publication date of another claimed or which is clied to establish the publication date of another claimed or which is clied to establish the publication date of another claimed or which is clied to establish the publication date of another claimed or which is clied to establish the publication date of another claimed or which is clied to establish the publication date of another claimed or which is clied to establish the publication date of another claimed or which is cleid to establish the publication date of another claimed or which is cleid to establish the considered to involve an inventive see when the document is combined with one or more other seath documents, such combination being obvious to a person skilled in the art document the international filing date but later than the priority date claimed March 2005 (29.03.2005) and and mailting address of the ISA/US Mall Step PCT, Am.: ISA/US Comment published apprior to the international filing date but later than the priority date claimed To document member of the same patent family document family annex. 1-8. Date of mailing of the international filing date or pri	TO BE RELEVANT			
Further documents are listed in the continuation of Box C. Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance are cartier application or patent published on or after the International filing date or priority date and not in conditive with the application but cited to understand the principle or the particular relevance occument which may throw doubts on priority claims of or which is cited to establish the publication date of another cliation or other special reason (as specified). document referring to an oral disclosure, use, exhibition or other means of document referring to an oral disclosure, use, exhibition or other means of the catual completion of the international search document political prior to the international filing date but later than the priority date claimed are of the actual completion of the international search March 2005 (29.03.2005) and and mailing address of the ISA/US Mail Stop PCT, Amr. ISA/US Commissioner of Patents P.O. Box 1450 Alexandria, Virginia 2231-1450 Cesimile No. (703.305-3230) See patent family annex. Se		appropriate, of the relevant passages	Relevant to claim No.	
Further documents are listed in the continuation of Box C. Special categories of cited documents: ** document defining the general state of the art which is not considered to be of particular relevance state of the art which is not considered to be of particular relevance state of the art which is not considered to be of particular relevance state of the art which is not considered to be of particular relevance state of the art which is one of particular relevance state of the art which may throw doubts on priority claim(s) or which is cited to establish the publication date of another cliation or other special reason (as appecificacy). **Comment which may throw doubts on priority claim(s) or which is cited to establish the publication date of another cliation or other special reason (as appecificacy). **Comment referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed. **Accument published prior to the international filing date but later than the priority date claimed. **Accument published prior to the international filing date but later than the priority date claimed. **December 1: SAFUIS **Authorized officer* Main stop PCT, Am.: ISAFUIS Commissioner of Paenus P.O. Box 1450 Alexandria, Virginia 2231-1450 Saimille No. (703) 305-3230 Telephone No. 703-308-0956	00 5,766,032 A (Fezzamii et al) 04 August 1998 (04.07.1998), see entire document.	1-8,12-17	
Further documents are listed in the continuation of Box C. Special categories of cited documents: "I document defining the general state of the art which is not considered to be of particular relevance: "attention and the publication or patent published on or after the international filling date or priority date and not in conflict with the application but clied to understand the priority of the priority date in the publication or patent published on or after the international filling date or priority date claimed invention or other special reason (as specified). "A" document which may drow doubts on priority claim(s) or which is clied to establish the publication date of another cliation or other special reason (as specified). "A document referring to an oral disclosure, use, exhibition or other means document priority date claimed invention cannot be considered to twolve an inventive step when the document is taken alone document priority date claimed invention cannot be considered to twolve an inventive step when the document is taken alone document provided in the common of particular relevance; the claimed invention cannot be considered to twolve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to twolve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to twolve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to twolve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to twolve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to twolve an inventive step when the document is taken alone and the particular relevance; the claimed invention cannot be considered to revolve an inventive step when the document is taken a	Y			
Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "C" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "O" document published prior to the international filing date but later than the priority date claimed "O" document published prior to the international filing date but later than the priority date claimed "O" Alexandria, Virginia 22313-1450 csimile No. (703) 305-3230			9-11,18	
Special categories of cited documents: "T" document defining the general state of the art which is not considered to be of particular relevance "earlier application or patent published on or after the international filing date of principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family The of the actual completion of the international search document member of the same patent family Date of mailing of the international particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is cannot be considered to involve an inventive step when the document is cannot be considered to involve an inventive step when the document is cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is cannot be considered to involve an inventive step when the document is always and the principle or theory underlying the invention cannot be considered to involve an inventive step when the				
Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to be of particular relevance earlier application or patent published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed mailing address of the ISA/US Mairch 2005 (29.03.2005) Date of mailing of the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family document member of the same patent family document published prior to the international filing date document is taken alone document is taken alone document is taken alone document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is cannot be considered to involve an inventive step when the document is date and not in conflict with the a		ł		
Special categories of cited documents: "T" document defining the general state of the art which is not considered to be of particular relevance "earlier application or patent published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed document published prior to the international filing date but later than the priority date claimed document published prior to the international filing date but later than the priority date claimed Date of mailing of the international falling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be consid				
Special categories of cited documents: "T" document defining the general state of the art which is not considered to be of particular relevance "earlier application or patent published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed document published prior to the international filing date but later than the priority date claimed document published prior to the international filing date but later than the priority date claimed Date of mailing of the international falling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be consid				
Special categories of cited documents: "T" document defining the general state of the art which is not considered to be of particular relevance "earlier application or patent published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed document published prior to the international filing date but later than the priority date claimed document published prior to the international filing date but later than the priority date claimed Date of mailing of the international falling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be consid				
Special categories of cited documents: "T" document defining the general state of the art which is not considered to be of particular relevance "earlier application or patent published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed document published prior to the international filing date but later than the priority date claimed document published prior to the international filing date but later than the priority date claimed Date of mailing of the international falling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be consid				
Special categories of cited documents: "T" document defining the general state of the art which is not considered to be of particular relevance "earlier application or patent published on or after the international filing date of principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family The of the actual completion of the international search document member of the same patent family Date of mailing of the international particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is cannot be considered to involve an inventive step when the document is cannot be considered to involve an inventive step when the document is cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is cannot be considered to involve an inventive step when the document is always and the principle or theory underlying the invention cannot be considered to involve an inventive step when the				
Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "C" earlier application or patent published on or after the international filing date "document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "document referring to an oral disclosure, use, exhibition or other means "document published prior to the international filing date but later than the priority date claimed "document published prior to the international filing date but later than the priority date claimed "A" document published prior to the international filing date but later than the priority date claimed "A" document published prior to the international filing date but later than the priority date claimed "A" document published prior to the international filing date but later than the priority date claimed "A" document published prior to the international filing date but later than the priority date claimed "A" document member of the same patent family Date of mailing of the international priority report March 2005 (29.03.2005) Authorized officer Michael P. Stafira DEBORAH A. THOMAS PARALEGAL SPECIALIST Telephone No. 703-308-0956				
Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "C" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document referring to an oral disclosure, use, exhibition or other means "document published prior to the international filing date but later than the priority date claimed ate of the actual completion of the international search March 2005 (29.03.2005) Mail Stop PCT, Atm: ISA/US Commissioner of Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 csimile No. (703) 305-3230				
Special categories of cited documents: "T" Special categories of cited documents: Commissioner of Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Alexandria,				
Special categories of cited documents: A" document defining the general state of the art which is not considered to be of particular relevance earlier application or patent published on or after the international filing date "X" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document referring to an oral disclosure, use, exhibition or other means "document published prior to the international filing date but later than the priority date claimed "A" document published prior to the international filing date but later than the priority date claimed "A" document published prior to the international filing date but later than the priority date claimed "A" document published prior to the international filing date but later than the priority date claimed "A" document published now of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international patent report Authorized officer March 2005 (29.03.2005) Authorized officer Michael P. Stafira Telephone No. 703-308-0956				
Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "C" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document referring to an oral disclosure, use, exhibition or other means "document published prior to the international filing date but later than the priority date claimed ate of the actual completion of the international search March 2005 (29.03.2005) Mail Stop PCT, Atm: ISA/US Commissioner of Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 csimile No. (703) 305-3230				
Special categories of clted documents: A" document defining the general state of the art which is not considered to be of particular relevance earlier application or patent published on or after the international filing date "X" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document referring to an oral disclosure, use, exhibition or other means "document published prior to the international filing date but later than the priority date claimed Authorized officer March 2005 (29.03.2005) Mail Stop PCT, Atm: ISA/US Commissioner of Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Accimile No. (703) 305-3230				
Special categories of cited documents: A" document defining the general state of the art which is not considered to be of particular relevance earlier application or patent published on or after the international filing date "X" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document referring to an oral disclosure, use, exhibition or other means "document published prior to the international filing date but later than the priority date claimed "A" document published prior to the international filing date but later than the priority date claimed "A" document published prior to the international filing date but later than the priority date claimed "A" document published prior to the international filing date but later than the priority date claimed "A" document published now of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international patent report Authorized officer March 2005 (29.03.2005) Authorized officer Michael P. Stafira Telephone No. 703-308-0956				
Special categories of cited documents: A" document defining the general state of the art which is not considered to be of particular relevance earlier application or patent published on or after the international filing date "X" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document referring to an oral disclosure, use, exhibition or other means "document published prior to the international filing date but later than the priority date claimed "A" document published prior to the international filing date but later than the priority date claimed "A" document published prior to the international filing date but later than the priority date claimed "A" document published prior to the international filing date but later than the priority date claimed "A" document published now of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international patent report Authorized officer March 2005 (29.03.2005) Authorized officer Michael P. Stafira Telephone No. 703-308-0956		· 1		
Special categories of clted documents: A" document defining the general state of the art which is not considered to be of particular relevance earlier application or patent published on or after the international filing date "X" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document referring to an oral disclosure, use, exhibition or other means "document published prior to the international filing date but later than the priority date claimed Authorized officer March 2005 (29.03.2005) Mail Stop PCT, Atm: ISA/US Commissioner of Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Accimile No. (703) 305-3230	Possible 4			
A document defining the general state of the art which is not considered to be of particular relevance earlier application or patent published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed March 2005 (29.03.2005) Mail Stop PCT, Atm: ISA/US Commissioner of Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 csimile No. (703) 305-3230		See patent family annex.		
document defining the general state of the art which is not considered to be of particular relevance of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such document, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international part of report March 2005 (29.03.2005) Mail Stop PCT, Atm: ISA/US Mail Stop PCT, Atm: ISA/US Mail Stop PCT, Atm: ISA/US All Stop PCT, Atm: ISA/US	Special categories of cited documents:	"T" later document published after the inter	national filing date or priority	
document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document published prior to the international filing date but later than the priority date claimed completion of the international search March 2005 (29.03.2005) Ame and mailing address of the ISA/US Mail Stop PCT, Atm: ISA/US Alexandria, Virginia 22313-1450 csimile No. (703) 305-3230	A" document defining the general state of the art which is not considered to be	uale and incontict with the applica	tion has also to and and a dis-	
document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed ate of the actual completion of the international search March 2005 (29.03.2005) March 2005 (29.03.2005) Ame and mailing address of the ISA/US Commissioner of Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 csimile No. (703) 305-3230	of particular relevance	principle of theory underlying the inven	tion	
document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) or document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed ate of the actual completion of the international search March 2005 (29.03.2005) March 2005 (29.03.2005) Ame and mailing address of the ISA/US Commissioner of Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 csimile No. (703) 305-3230	carlier application or patent published on or after the international filing date	"X" document of particular relevance; the cl	aimed invention cannot be	
document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed March 2005 (29.03.2005) March 2005 (29.03.2005) Mail Stop PCT, Atm: ISA/US Mail Stop PCT, Atm: ISA/US Alexandria, Virginia 22313-1450 Cosimile No. (703) 305-3230 Mocument of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international family Authorized officer Michael P. Stafira DEBORAH A. THOMAS PARALEGAL SPECIALIST Telephone No. 703-308-0956		considered novel or cannot be considere	d to involve an inventive step	
considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document published prior to the international filing date but later than the priority date claimed March 2005 (29.03.2005) March 2005 (29.03.2005) Image and mailing address of the ISA/US Mail stop PCT, Atm: ISA/US Commissioner of Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 cosimile No. (703) 305-3230 Cosmile No. (703) 305-3230				
document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed ate of the actual completion of the international search March 2005 (29.03.2005) Amene and mailing address of the ISA/US Mail Stop PCT, Atm: ISA/US Commissioner of Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Action 10 of the international search occuments, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international filing date but later than the priority date claimed Murch 2005 (29.03.2005) Authorized officer Michael P. Stafira DEBORAH A. THOMAS PARALEGAL SPECIALIST Telephone No. 703-308-0956	specified)	document of particular relevance; the cle	aimed invention cannot be	
document published prior to the international filing date but later than the priority date claimed ate of the actual completion of the international search March 2005 (29.03.2005) Authorized officer Mail Stop PCT, Atm: ISA/US Commissioner of Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Action 1703 305-3230 Description of the international search Michael P. Stafira Description of the same patent family Date of mailing of the international filing date but later than the priority date claimed Authorized officer Michael P. Stafira DEBORAH A. THOMAS PARALEGAL SPECIALIST Telephone No. 703-308-0956	ocument referring to an aral disalogue, was publicated and	combined with one or more other such a	ocuments such combination	
priority date claimed Authorized officer Mail Stop PCT, Atm: ISA/US Commissioner of Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Cosmile No. (703) 305-3230 Authorized but later than the document member of the same patent family Date of mailing of the international family Date of mailing of the international family Authorized officer Michael P. Stafira DEBORAH A. THOMAS PARALEGAL SPECIALIST Telephone No. 703-308-0956		being obvious to a person skilled in the	art	
Authorized officer Mail Stop PCT, Atm: ISA/US Commissioner of Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Acsimile No. (703) 305-3230 Date of mailing of the international search Mail stop PCT, Atm: ISA/US Michael P. Stafira DEBORAH A. THOMAS PARALEGAL SPECIALIST Telephone No. 703-308-0956	The state of the s	"&" document member of the same natent far	milv	
March 2005 (29.03.2005) Ame and mailing address of the ISA/US Mail Stop PCT, Atm: ISA/US Commissioner of Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Alexandria, Virginia 22313-1450 Accimile No. (703) 305-3230 Authorized officer Michael P. Stafira PARALEGAL SPECIALIST GROUP 1369 Telephone No. 703-308-0956			-	
Authorized officer Mail Stop PCT, Atm: ISA/US Commissioner of Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Alexandria, Virginia 22313-1450 Acsimile No. (703) 305-3230 Authorized officer Michael P. Stafira DEBORAH A. THOMAS PARALEGAL SPECIALIST Telephone No. 703-308-0956	are of the actual completion of the international search	Date of mailing of the international settrch	report	
Authorized officer Mail Stop PCT, Atm: ISA/US Commissioner of Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Acsimile No. (703) 305-3230 Authorized officer Michael P. Stafira PARALEGAL SPECIALIST Telephone No. 703-308-0956	March 2005 (29.03,2005)	3 0 JUN &882.	•	
Mail Stop PCT, Atm: ISA/US Commissioner of Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Acsimile No. (703) 305-3230 Michael P. Stafira Michael P. Stafira PARALEGAL SPECIALIST Telephone No. 703-308-0956	ame and mailing address of the ISA/US	Authorized officer		
P.O. Box 1450 Alexandria, Virginia 22313-1450 Alexandria, Virginia 22313-1450 Acsimile No. (703) 305-3230 Telephone No. 703-308-0956 Telephone No. 703-308-0956	Mail Stop PCT, Attn: ISA/US	DE	ROBAH A THOMAS	
Alexandria, Virginia 22313-1450 cosimile No. (703) 305-3230 Telephone No. 703-308-0956	Commissioner of Patents			
esimile No. (703) 305-3230	Alexandria, Virginia 22313-1450			
m PCT/ISA/210 (second sheet) (July 1998)	acsimile No. (703) 305-3230	тегерионе 140. /03-308-0956	Al A	
	m PCT/ISA/210 (second sheet) (July 1998)		pur	